## **IN THE CLAIMS**

- 1. (canceled)
- 2. (currently amended) A method of screening for therapeutic agents useful in the treatment of a cardiovascular <u>disease</u> in a mammal, comprising steps of:
  - i) determining the activity of a PDE10A polypeptide at a certain concentration of a test compound or in the absence of said test compound, and
  - ii) determining the activity of said polypeptide at a different concentration of said test compound; and
  - iii) identifying said test compound as a potential therapeutic agent useful in the treatment of the cardiovascular disease.
  - 3-26. (canceled)
- 27. (currently amended) A method of screening for therapeutic agents useful in the treatment of a disease selected from the group consisting of peripheral nervous system diseases; cancer, gastroenterological diseases; endocrinological diseases; and urological diseases in a mammal, comprising steps of
  - i) determining the activity of a PDE10A polypeptide at a certain concentration of a test compound or in the absence of said test compound, and
  - ii) determining the activity of said polypeptide at a different concentration of said test compound; and
  - iii) identifying said test compound as a potential therapeutic agent useful in the treatment of the disease.
- 28. (currently amended) A method of screening for therapeutic agents useful in the treatment of a central nervous system disorder selected from the group consisting of brain

injuries, cerebrovascular diseases and their consequences, motor neuron disease, dementia, ALS, multiple selerosis, traumatic brain injury, stroke, post-stroke sequelae, posttraumatic brain injury, small-vessel cerebrovascular disease, Alzheimer's disease, vascular dementia, dementia with Lewy bodies, frontotemporal dementias, Piek's disease, progressive nuclear palsy, thalamic degeneration, Creutzfeld-Jakob dementia, HIV dementia, sehizophrenia with dementia, Korsakoff's psychosis, and pain, comprising steps of

- i) determining the activity of a PDE10A polypeptide at a certain concentration of a test compound or in the absence of said test compound, and
- ii) determining the activity of said polypeptide at a different concentration of said test compound; and
- iii) identifying said test compound as a potential therapeutic agent useful in the treatment of the disease.